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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/942,418	08/30/2001	Leping Li	HQ9-98-066US2	7371
32074 7:	590 08/25/2005		EXAMINER	
INTERNATIONAL BUSINESS MACHINES CORPORATION			RACHUBA, MAURINA T	
DEPT. 18G				DADDO MONTO
BLDG. 300-48	2		ART UNIT	PAPER NUMBER
2070 ROUTE 5	52		3723	
HOPEWELL J	UNCTION, NY 12533		DATE MAIL ED. 00/25/200	_

DATE MAILED: 08/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/942,418 Examiner M Rachuba pears on the cover sheet with the of	Applicant(s) LI ET AL. Art Unit 3723 correspondence address	
· ·	Examiner M Rachuba pears on the cover sheet with the o	Art Unit 3723	
· ·	M Rachuba pears on the cover sheet with the	3723	
The MAN INC DATE of this communication	pears on the cover sheet with the	<u> </u>	
The MAN INO DATE of this communication one		correspondence address	_
- The MAILING DATE of this communication app Period for Reply	Y IS SET TO EXPIRE 3 MONTH		
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 22 Ju	<u>une 2005</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E	•		
Disposition of Claims			
4) Claim(s) 1-15 is/are pending in the application			
4a) Of the above claim(s) 14 and 15 is/are with			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 30 August 2001 is/are:	a)⊠ accepted or b)□ objected	to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct		•	
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).	
1. Certified copies of the priority document	s have been received.	•	
2. Certified copies of the priority documents	s have been received in Applicati	ion No	
Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage	
application from the International Bureau	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
•			
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D		
notice of Dratisperson's Patent Drawing Review (PTO-948)	_	Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

1. Claims 14 and 15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 22 June 2005.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, 3, 4, 7, 8 and 13 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Aldridge et al, US005787015A. Please refer to figures 3-6 and column 3, lines 47 through column 5, lines 19.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 6. Claims 5, 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aldridge et al, '015. '015 does not disclose that the interface translates between a signal of at least about 0 mA and at most about 20 mA and a signal of at least about 0 V and at most about 10 V, or that the interface also translates at least one of the at least three outputs to a 5V signal. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided an interface that translates between a signal of at least about 0 mA and at most about 20 mA and a signal of at least about 0 V and at most about 10 V, or that translates at least one of the at least three outputs to a 5V signal since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233. Here, the range of signal values might depend on the type of input or output device used, and one of ordinary skill would recognize providing a broad range of input and output signals to allow a variety of different devices to be interfaced.
- 7. Claims 1 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima, US005876265A in view of Aldridge et al '015. '265 discloses a CMP device that uses an interface that translates between and input of first and second voltages to determine an output to the CMP device. '265 does not disclose that the

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interface accepts at least three sets of inputs and transmits at least three sets of outputs. '015, figures 3- 6 and column 3, lines 47 through column 5, lines 19, teaches the use of an interface that accepts at least three sets of inputs and transmits at least three sets of outputs. It would have been obvious to one of ordinary skill to have provided '265 with the interface of '015, to allow various other sensing and/or control devices to be used, increasing the versatility of the CMP device.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Other similar devices are cited of interest.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M Rachuba whose telephone number is 571-272-4493. The examiner can normally be reached on Monday-Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571-272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M Rachuba
Primary Examiner (
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